

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 1. (previously presented) An apparatus for generating
2 outputted moving picture data derived from inputted uncompressed
3 moving picture data , said apparatus comprising:

4 compression means including quantization means for
5 generating compressed moving picture data from said
6 uncompressed moving picture data; and
7 rate correction data producing means for producing rate
8 correction data to be added to said compressed moving
9 picture data to generate said outputted moving picture
10 data which is used by another apparatus to change the
11 bit rate of said compressed moving picture data.

1 2. (previously presented) The apparatus according to Claim
2 1, wherein said rate correction data producing means creates rate
3 correction data which enables rate changing by said another
4 apparatus by conducting a quantization for an area having high
5 bit rate in motion picture frames, while using quantization value
6 which is different from a value used when producing the
7 compressed moving picture data.

1 3. (previously presented) The apparatus according to Claim
2 1, wherein said rate correction data producing means creates rate
3 correction data which enable bit rate changing by said another
4 apparatus by conducting a different quantization for the area in
5 a P frame of the compressed moving picture data having a low
6 probability of being referred to in a motion prediction
7 operation.

1 4. (previously presented) The apparatus according to any one
2 of Claims 1 to 3, wherein said compression means further
3 includes:

4 means for recording reference inhibition area information
5 about an area not to be referred to for motion
6 compensation, wherein the area information is included
7 in the rate correction data for each frame of the
8 moving picture data; and

9 motion compensation means for conducting motion compensation
10 without referring to the area not to be referred to in
11 conducting motion prediction for a next frame.

1 5. (previously presented) The apparatus according to Claim
2 1, wherein said compression means includes motion compensation
3 means for conducting motion compensation and outputting
4 referenced area information referred to at a time of motion
5 estimation; wherein

6 said rate correction data producing means uses the
7 referenced area information creates rate correction data which
8 enables rate changing by said another apparatus by conducting a
9 quantization for an area a low probability of being referred to
10 in conducting motion prediction for the next frame, while using
11 quantization value which is different from a value used when
12 producing the compressed moving picture data.

1 6. (previously presented) The apparatus according to Claim
2 1, wherein said rate correction data producing means deletes high
3 frequency components from input uncompressed moving picture data
4 in advance, and then produces said rate correction data which
5 enables rate changing by said another apparatus by conducting a
6 quantization using a quantization value equivalent to a value
7 used when producing the compressed moving picture data.

1 7. (currently amended) The apparatus according to Claim 1,
2 wherein said rate correction data producing means determines
3 position information identifying a position at which rear
4 portions of bits in packets of said compressed motion picture
5 data ~~can be deleted~~ are identified for later deletion by the
6 another apparatus with respect to an area structured by a
7 continuous arbitrary number of macro-blocks and wherein the rate
8 correction data producing means produces the rate correction data
9 including the position information.

1 8. (previously presented) The apparatus according to Claim
2 1, wherein said rate correction data producing means produces
3 rate correction data which enables the bit rate changing by said
4 another apparatus by creating an I-frame as well as P-frame with
5 respect to the motion picture frames generated as P-frame by said
6 compression means.

1 9. (currently amended) A moving picture data producing
2 apparatus to which uncompressed moving picture data is input,
3 comprising:

4 compression means including quantization means for
5 generating compressed moving picture data from said
6 uncompressed moving picture data; and
7 rate correction data producing means for producing rate
8 correction data to be added to said compressed moving
9 picture data to generate ~~said~~ outputted moving picture
10 data which is used by another apparatus to change the
11 bit rate of said compressed moving picture data,
12 wherein said rate correction data producing means includes a
13 quarry-out area deciding means which decides an area
14 which is able to partially quarry out in a frame of
15 moving picture data, and

16 said rate correction data producing means creates said rate
17 correction data for region in the quarry out area thus
18 decided.

1 10. (previously presented) The apparatus according to Claim
2 9, wherein the rate correction data producing means produces the
3 rate correction data which enables rate changing by said another
4 apparatus for at least one or more areas within said quarry out
5 area.

1 11. (canceled).

1 12. (currently amended) A moving picture coding apparatus
2 comprising:

3 bit rate correction means for selecting rate correction
4 data, for each frame, from compressed moving picture
5 data input to said apparatus so as to fit comply with a
6 bit rate to be output, and also for replacing replace
7 the selected rate correction data with compressed
8 moving picture data so that another moving picture data
9 having a different bit rate is synthesized, wherein the
10 bit rate is changed based on said rate correction data
11 without decoding all of said inputted moving picture
12 data.

1 13. (currently amended) The apparatus according to Claim 12,
2 wherein said bit rate correction means uses the rate correction
3 data to change the bit rate of said ~~encoded~~ compressed moving
4 picture data according to a different desired bit rate to output
5 a modified moving picture data at the desired bit rate.

1 14. (currently amended) The apparatus according to Claim 12,
2 wherein said rate correction data includes bit deletion data

3 identifying bits in said encoded compressed moving picture data
4 which ~~can be deleted~~ are identified for later deletion, and
5 further wherein said bit rate correction means uses said bit
6 deletion data to delete some number of said bits to output
7 modified moving picture data at a different desired bit rate.

1 15. (currently amended) A moving picture encoding apparatus
2 comprising:

3 means for inputting uncompressed moving picture data;
4 means for generating compressed moving picture data
5 including encoded video packets generated from said
6 uncompressed moving picture data;
7 means for producing rate correction data including
8 information about said encoded video packets, wherein
9 said rate correction data ~~can be~~ is used for changing a
10 bit rate of said compressed moving picture data without
11 decoding said encoded video packets; and
12 means for adding said rate correction data to said
13 compressed moving picture data for outputting outputted
14 moving picture data.

1 16. (previously presented) The apparatus of claim 15,
2 wherein said information in said rate correction data includes
3 information identifying less important bits of said encoded video
4 packets, and wherein said changing the bit rate of said
5 compressed moving picture data is done by stripping some number
6 of said less important bits from some number of said encoded
7 video packets without decoding said some number of said encoded
8 video packets.

1 17. (currently amended) The apparatus of claim 15, wherein
2 said means of for producing said rate correction data includes
3 means for deciding a deletion area of a frame in said moving

4 picture data for generating deletion area data for including in
5 said information in said rate correction data.

1 18. (currently amended) A moving picture transforming

2 apparatus for changing the bit rate of said outputted moving
3 picture data produced by the encoding apparatus according to
4 claim 17, said transforming apparatus comprising:

5 means for inputting said outputted moving picture apparatus
6 data;

7 means for retrieving said rate correction data from said
8 outputted moving picture data; and

9 means for changing the bit rate of said outputted moving
10 picture data by utilizing said rate correction data to
11 delete said deletion area without decoding all of said
12 encoded video packets of said outputted moving picture
13 data.

1 19. (currently amended) A moving picture transforming

2 apparatus for changing the bit rate of said outputted moving
3 picture data produced by the encoding apparatus according to
4 claim 16, said transforming apparatus comprising:

5 means for inputting said outputted moving picture apparatus
6 data;

7 means for retrieving said rate correction data from said
8 outputted moving picture data; and

9 means for changing the bit rate of said outputted moving
10 picture data by utilizing said rate correction data for
11 stripping said some number of said less important bits
12 without decoding all of said encoded video packets of
13 said outputted moving picture data.

1 20. (currently amended) A moving picture transforming

2 apparatus for changing the bit rate of said outputted moving

3 picture data produced by the encoding apparatus according to
4 claim 15, said transforming apparatus comprising:

5 means for inputting said outputted moving picture ~~apparatus~~
6 data;

7 means for retrieving said rate correction data from said
8 outputted moving picture data; and

9 means for changing the bit rate of said outputted moving
10 picture data by utilizing said rate correction data,
11 wherein the bit rate is changed without decoding all of
12 said encoded video packets of said outputted moving
13 picture data.